

Message Text

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PAGE 01 STATE 046202
ORIGIN EB-08

INFO OCT-01 EUR-12 ISO-00 DODE-00 NSAE-00 USIA-06
TRSE-00 SOE-02 DOE-11 CIAE-00 COME-00 ACDA-12
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RPE

-----125597 230910Z /21
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FM SECSTATE WASHDC
TO AMEMBASSY PARIS

C O N F I D E N T I A L STATE 046202

USOECN, EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, US, PL

SUBJECT: US CRYSTAL GROWING FURNACE TO POLAND

REF: A) PARIS 605, B) COCOM DOC (78) 61

COMMERCE TECHNICIANS HAVE POINTED OUT THAT WITHOUT
MODIFICATION THE VARIAN MODEL 2850 IS NOT USEFUL FOR GROW-
ING GALLIUM ARSENIDE, AND WE BELIEVE THAT THIS POINT WAS
AGREED TO BY DOD TECHNICIANS (NAVAL RESEARCH LAB) AT AN
INFORMAL MEETING AT COMMERCE IN DECEMBER. GALLIUM ARSENIDE
HAS BEEN GROWN IN MODIFIED CRYSTAL GROWERS USING LIQUID
ENCAPSULATION AT PRESSURES SLIGHTLY EXCEEDING ATMOSPHERIC
UNDER LABORATORY CONDITIONS. WE HAVE NOT YET VERIFIED
WIDESPREAD INDUSTRIAL APPLICATION OF SUCH A TECHNIQUE.
BESIDES THESE CONSIDERATIONS, COMMERCE POINTS OUT THAT
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SEVERAL CRYSTAL GROWERS SIMILAR OR IDENTICAL TO THE
VARIAN MODEL 2859 FURNACES HAVE ALREADY RECEIVED COCOM AP-
PROVAL AND AS EXPORTED PROVIDED MORE THAN SUFFICIENT GROWTH
CAPACITY FOR THE GALLIUM ARSENIDE CRYSTALS IF THE EASTERN
BLOC DESIRES TO MODIFY A FURNACE. COMMERCE TECHNICIANS
ACCEPT THE GERMAN POSITION THAT GROWTH OF GALLIUM ARSENIDE
CRYSTALS IN THE EKZ 1600/7000 (REF. COCOM DOC (77) 806 TO

TECHNICIANS ASSERT THE SAME POSITION FOR THE VARIAN MODEL
2850 AND UK MSR2. COMMERCE AND DOD TECHNICIANS
CONCLUDED DURING THE MEETING OF DECEMBER 1977 THAT
ATTEMPTS TO GROW GALLIUM ARSENIDE CRYSTALS WITH MODIFICA-
TION OF SUCH EQUIPMENT WOULD PRODUCE INFERIOR MATERIAL NOT
SUITABLE FOR STRATEGIC APPLICATIONS. VANCE

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Message Attributes

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Capture Date: 01 jan 1994
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Draft Date: 22 feb 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 20 Mar 2014
Disposition Event:
Disposition History: n/a
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Handling Restrictions: n/a
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ISecure: 1
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Litigation Codes:
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TAGS: ESTC, US, PL, COCOM
To: PARIS USOECD
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Review Markings:
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